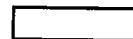


Washoe Tribe of Nevada and California
EPA FY10 Region 9 Wetland Program Development

Personnel	Calculation	Request	Match
FTE Environmental Programs Director	\$44.25 x 200 hours	8,850	
FTE Environmental Coordinator	\$33.25 x 100 hours	3,325	
Environmental Specialist II	\$23.38 x 2080 hours	48,630	
Environmental Specialist II P.L. 93-638 funding	\$23.38 x 770 hours		18,003
Clerical Assistant	\$13.20 x 100 hours	1,320	
Administrative Assistant	\$17.57 x 180 hours	3,163	
Subtotal Personnel		65,288	18,003 ✓
Fringe Benefits			
FICA	0.0765	4,995	1,377
SUTA	0.018	1,175	324
SIIS	0.0221	1,443	398
Health Insurance	\$578.00/mo x 1.0 FTE x 18 months	10,404	1,734
Liability Insurance	\$42.00/mo x 1.0 FTE x 18 months	756	
Retirement Benefit	0.06	4,374	
Vacation Liability	0.06	4,374	
Subtotal Fringe		27,521	3,833
Total Personnel and Fringe		92,809	21,836
Travel			
Local Travel	3,000 x .50	1,500	
Non Local Travel	EPA An.Con., Water related trainings: airfare, fees, motel, per diem, rental car expenses.	2,000	
Subtotal Travel		3,500	
Equipment			
Monitoring/Field Equipment	use of GIS/GPS/Plotter, vehicles, quads, new equipment as needed 638 funds		15,019
Subtotal Equipment		-	15,019 ✓
Supplies			
Departmental Supplies	\$45/mo x 18	810	
Field Supplies		1,325	
Subtotal Supplies		2,135	
Contractual			
Laboratory Fees		5,000	
		5,000	
Other			
Cell Phone	\$100/mo x 18 mos	1,800	
Vehicle Maintenance, Insurance and Registration		1,800	
Communications/ Maintenance, operations and repairs	Telephone, sewer/water, propane, electricity, internet, mail, etc.	3,000	
Volunteers	4 events x 20 people x \$13.50		1,230
Subtotal Other		6,600	1,230
Total Direct Charges		110,044	38,085
Indirect Charges	11.75% of direct costs minus contractual and equipment	12,343	2,710
Total Program Cost		122,386	40,795 ✓



WASHOE TRIBE OF NV AND CA
EPA Wetlands FY10 () - IN-KIND TRACKING
Agreement Number and Start and End Dates

	Tribal computers, GPS, Plotter, Printer, etc.	Tribal trailer to haul quads and Ranger etc. @ \$25/day x 60 days	Tribal Quads (off-road vehicles) and work vehicles @ \$70/day x 60 days	Monitoring Equipment : piezometer (5), EH Probe, troll 9500 (multi parameter) (2)	ES II	ES II Fringe	Volunteers 4 events x 20 people x \$13.50
<i>Est. Budget in RFP</i>	\$3,479	\$1,000	\$1,250	\$12,000	\$18,003	\$3,833	\$1,230
Actual In-kind							
Oct-10							
Nov-10							
Dec-10							
Jan-11							
Feb-11							
Mar-11							
Apr-11							
May-11							
Jun-11							
Jul-11							
Aug-11							
Sep-11							
Oct-11							
Nov-11							
Dec-11							
Jan-12							
Feb-12							
Mar-12							
TOTALS	\$0	\$0	\$0				

[illegible]



**WASHOE TRIBE OF NEVADA & CALIFORNIA
EPA FY10 REGION 9 WETLAND PROGRAM DEVELOPMENT
OCTOBER 1, 2010 THROUGH MARCH 30, 2012**

DESCRIPTION OF TASKS & ACTIVITIES	DELIVERABLES/OUTPUTS & TARGET DATES	ESTIMATED PERSON/YEARS (2080hrs = 1 YEAR)	ESTIMATED COST
Program Administration Component			
<p>Task 1. Program Fiscal Administration <i>Purpose and Need:</i> As an EPA grantee, the Tribe is required to adhere to administrative requirements identified in 40 CFR Part 31 and OMB Circular A-87.</p> <p><i>Goals and Objectives:</i> The goal of this task is to ensure the Tribe follows applicable administrative requirements. Our objectives are to identify administrative requirements associated with EPA grants, document how the Tribe meets or fails to meet the requirements, and outline steps necessary to bring the Tribe into "administrative compliance" if applicable.</p> <p><i>Approach/Responsibilities:</i> The Tribe will research administrative requirements, assess our compliance with each requirement, and document our findings in a written report. Our EPA Project Officer and Grants Specialist will be asked to comment on a draft report and provide guidance on how to improve our administrative systems if necessary. The WEPD Director will coordinate with the Tribal Grants Compliance Accountant and Finance Director regarding fiscal management and financial reporting.</p> <p><i>Environmental Outcomes/Results:</i> This task will facilitate Tribal compliance with federal grant requirements.</p>	<p>1. Financial Status Report (due quarterly, will be submitted to appropriate EPA office by tribal finance department staff and final will be submitted prior to 90 days of the end date. 3/30/12)</p> <p>2. MBE/WBE (10/30/11 and within 90 days of end date to EPA GMO)</p>	<p>PD 40 hours PC 20 hours CA 30 hours AA 60 hours</p> <p>Total: 150 hours</p>	<p>\$1,770.00 \$665.00 \$396.00 \$1,054.00</p> <p>Total: \$3,885.00</p>
<p>Task 2. Summarize Progress; Program Evaluation <i>Purpose and Need:</i> Progress reports are necessary to evaluate the effectiveness of the Environmental Program. The Tribe is required to submit quarterly progress reports to the EPA and jointly evaluate grant accomplishments with the EPA Project Officer. In addition WEPD is required to submit monthly progress reports to the Tribal Council.</p> <p><i>Goals and Objectives:</i> To keep the Tribe and EPA informed of WEPD accomplishments, expenditures, challenges, and activities.</p> <p><i>Approach/Responsibilities:</i> The WEPD will submit monthly reports to the Tribal Council and quarterly reports to the EPA. The Tribe's fourth quarter "year end" report will assess the progress and accomplishments for the program. The EPA Project Officer will review WEPD quarterly reports and will provide a written evaluation "end of year report" of WEPD progress. A draft of the EPA Project Officer's evaluation will be submitted to the Environmental Director for review prior to being finalized and sent to the Tribal Chair. The WEPD will review the Government Performance and Results Act, which will assist in assessing program performance.</p> <p>Quarterly reports will contain the following information:</p> <ul style="list-style-type: none"> Comparison of actual vs. expected progress achieving environmental outcomes and outputs, for each 	<p>1. Quarterly Reports to EPA (12/31/10, 3/31/11, 6/30/11, 9/30/11)</p> <p>2. Year End Report (Annual Report) (4/30/12)</p> <p>3. Tribal Council Reports are due the first week of every month. Reports will be submitted quarterly with reports.</p>	<p>PD 40 hours PC 20 hours CA 30 hours AA 60 hours</p> <p>Total: 150 hours</p>	<p>\$1,770.00 \$665.00 \$396.00 \$1,054.00</p> <p>Total: \$3,885.00</p>



**WASHOE TRIBE OF NEVADA & CALIFORNIA
EPA FY10 REGION 9 WETLAND PROGRAM DEVELOPMENT
OCTOBER 1, 2010 THROUGH MARCH 30, 2012**

DESCRIPTION OF TASKS & ACTIVITIES	DELIVERABLES/OUTPUTS & TARGET DATES	ESTIMATED PERSON/YEARS (2080hrs = 1 YEAR)	ESTIMATED COST															
<p>work plan task.</p> <ul style="list-style-type: none">• Explanations for lack of progress (or anticipated lack of progress) if applicable.• Suggestions for improving grant performance or modifying expectations (including proposed changes to target due dates) if necessary.• Status of expenditures (cumulative) for reporting period and explanations of cost overruns/under-runs if applicable. <p><i>Environmental Outcomes/Results:</i> This task will keep WEPD and the Tribe in compliance with federal reporting requirements.</p> <p>Task 3. Program Capacity-Building and Coordination <i>Purpose and Need:</i> To coordinate and schedule WEPD Wetland program tasks and activities with other environmental program activities for long and short term planning.</p> <p><i>Goals and objectives:</i> To meet the goal of the wetland development project through monitoring and assessment. In addition to meeting the Tribe's goals of building tribal capacity to administer environmental programs, to protect environmental and public health, and to protect and enhance the tribal wetlands.</p> <p><i>Approach/Responsibilities:</i> The WEPD Director and Coordinator will schedule and coordinate program activities. The WEPD Director and Coordinator will hire/train staff, hold staff meetings. The WEPD Administrative Assistant will assist with arranging travel, training, and record keeping of program activities. The WEPD Director and Coordinator will research and draft grant proposals and research into funding opportunities for increased education, wetland development, enhancement and restoration.</p> <p><i>Environmental Outcomes/Results:</i> This task will assist in building Tribal capacity and coordination of WEPD program activities.</p>	<ol style="list-style-type: none">1. Status of activities will be summarized in quarterly reports.2. Copy of meetings attended will be submitted with quarterly reports.	<table><tr><td>PD</td><td>40 hours</td><td>\$1,770.00</td></tr><tr><td>PC</td><td>20 hours</td><td>\$665.00</td></tr><tr><td>CA</td><td>40 hours</td><td>\$528.00</td></tr><tr><td>AA</td><td>60 hours</td><td>\$1,054.00</td></tr><tr><td colspan="2">Total: 160 hours</td><td>Total: \$4,017.00</td></tr></table>	PD	40 hours	\$1,770.00	PC	20 hours	\$665.00	CA	40 hours	\$528.00	AA	60 hours	\$1,054.00	Total: 160 hours		Total: \$4,017.00	
PD	40 hours	\$1,770.00																
PC	20 hours	\$665.00																
CA	40 hours	\$528.00																
AA	60 hours	\$1,054.00																
Total: 160 hours		Total: \$4,017.00																

WASHOE TRIBE OF NEVADA & CALIFORNIA
EPA FY10 REGION 9 WETLAND PROGRAM DEVELOPMENT
OCTOBER 1, 2010 THROUGH MARCH 30, 2012

DESCRIPTION OF TASKS & ACTIVITIES	DELIVERABLES/OUTPUTS & TARGET DATES	ESTIMATED PERSON/YEARS (2080hrs = 1 YEAR)	ESTIMATED COST
Project Implementation			
Task 1. Monitor and Assess Tribal Wetlands <i>Purpose and Need:</i> The current status of wetlands through out tribal lands need to be identified in order to protect and preserve the wetland ecosystems. WEPD needs to evaluate and prioritize impaired wetlands and monitor status. <i>Goals and objectives:</i> The goal of this task is to complete monitoring and site assessments in order to prioritize impaired wetlands and monitor wetland health and quality. <i>Approach/Responsibilities:</i> WEPD staff will develop a working definition of wetlands and conduct Level I, II and III assessments of designated wetlands. Completed modifications of Wetlands SAP/QAPP as needed. <i>Environmental Outcomes/Results:</i> The assessment of wetlands is essential to the protection of natural and cultural resources.	1. Status of activities will be summarized in quarterly reports. 2. Site monitoring and assessment results. 3. Submit amendments to Wetlands SAP/QAPP to EPA (10/1/10 – 12/31/10 due with 12/31 qrpt	PD 20 hours PC 10 hours ES II 520 hours ES II 200 hours Total: 750 hours	\$885.00 \$333.00 \$12,158.00 \$4,676.00 Total: \$18,052.00
Task 2. Database Management <i>Purpose and Need:</i> WEPD needs to develop a database to incorporate all wetland monitoring and assessment data collected. <i>Goals and objectives:</i> The goal of the proposed project will be to create and utilize a comprehensive wetland database. The database will assist with determining the extent and distribution of wetlands. <i>Approach/Responsibilities:</i> WEPD staff will develop and utilize a comprehensive wetland database. <i>Environmental Outcomes/Results:</i> The proposed project will result in the increased capacity of the tribe to manage wetlands on tribal lands.	1. Status of activities will be summarized in quarterly reports. 2. Completed wetland database.	PD 20 hours PC 10 hours ES II 520 hours ES II 200 hours Total: 750 hours	\$885.00 \$333.00 \$12,158.00 \$4,676.00 Total: \$18,052.00
Task 3. Develop Draft Tribal Monitoring and Assessment Strategy <i>Purpose and Need:</i> There is a need to develop a monitoring and assessment strategy for tribal wetlands in order to improve management of the wetlands. <i>Goals and objectives:</i> The task will develop a monitoring and assessment strategy which will summarize the monitoring and assessment results and develop management strategies. <i>Approach/Responsibilities:</i> WEPD staff will utilize the data and findings from the wetland assessments and monitoring to develop a draft Tribal Monitoring and Assessment Strategy. <i>Environmental Outcomes/Results:</i> This task will assist with future wetland protection and restoration	1. Status of activities will be summarized in quarterly reports.	PD 20 hours PC 10 hours ES II 520 hours ES II 200 hours	\$885.00 \$333.00 \$12,158.00 \$4,676.00

**WASHOE TRIBE OF NEVADA & CALIFORNIA
EPA FY10 REGION 9 WETLAND PROGRAM DEVELOPMENT
OCTOBER 1, 2010 THROUGH MARCH 30, 2012**

DESCRIPTION OF TASKS & ACTIVITIES	DELIVERABLES/OUTPUTS & TARGET DATES	ESTIMATED PERSON/YEARS (2080hrs = 1 YEAR)	ESTIMATED COST
efforts. The completed report will be used to improve management of tribal wetlands.	2. Completed draft tribal monitoring and assessment strategy.	Total: 750 hours	Total: \$18,052.00
<p>Task 4. Education and Outreach Component</p> <p><i>Purpose and Need:</i> The project will provide educational events and outreach on wetlands. The success of this program relies on an educated and knowledgeable community base and Tribal staff.</p> <p><i>Goals and objectives:</i> The proposed project will assist in developing the capacity to perform environmental trainings to improve wetlands management. The goal of this task is to educate Tribal members and staff on wetland ecosystems.</p> <p><i>Approach/Responsibilities:</i> WEPD staff will develop educational materials including brochures and articles for the tribal newsletter and website. WEPD staff will develop and complete four workshops and presentations relating to wetland health, wetland monitoring and assessments.</p> <p><i>Environmental Outcomes/Results:</i> This task will protect and preserve the tribe's wetland resources. This task will assist with the development of a well-educated base for Tribal members and staff; yielding a higher rate of compliance in environmental protection.</p>	<p>1. Status of activities will be summarized in quarterly reports.</p> <p>2. Completed education and outreach materials.</p>	<p>PD 20 hours PC 10 hours ES II 520 hours ESII 170 hours</p> <p>Total: 720 hours</p>	<p>\$885.00 \$333.00 \$12,158.00 \$3,975.00</p> <p>Total: \$17,351.00</p>
<p>Program Director = PD</p> <p>Program Coordinator = PC</p> <p>Environmental Specialist II = ES II</p> <p>Clerical Assistant = CA</p> <p>Administrative Assistant = AA</p>			

The due dates for deliverables corresponds with dates (month prior) that must be completed.

The due dates for deliverables corresponds with dates (month prior) that quarterly or annual reports are due to the EPA. Workplan reflects an estimate including personnel, it excludes budget line items: fringe, travel, contractual, equipment, supplies, or other. Refer to line item budget for more details.

NV TR 4

OMB Number: 4040-0004
Expiration Date: 01/31/2009

Guren Brown

Application for Federal Assistance SF-424

Version 02

* 1. Type of Submission:

- ☐ Preapplication
☒ Application
☐ Changed/Corrected Application

* 2. Type of Application:

- ☒ New
☐ Continuation
☐ Revision

* If Revision, select appropriate letter(s):

* Other (Specify)

* 3. Date Received:

05/06/2010

4. Applicant Identifier:

5a. Federal Entity Identifier:

* 5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name:

Washoe Tribe of Nevada and California

* b. Employer/Taxpayer Identification Number (EIN/TIN):

88-0120754

* c. Organizational DUNS:

021982913

d. Address:

* Street1:

919 Highway 395 South

Street2:

* City:

Gardnerville

County:

* State:

NV: Nevada

Province:

* Country:

USA: UNITED STATES

* Zip / Postal Code:

89410

e. Organizational Unit:

Department Name:

Environmental

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:

* First Name:

Marie

Middle Name:

* Last Name:

Barry

Suffix:

Title:

Environmental Director

Organizational Affiliation:

Washoe Tribe of Nevada and California

* Telephone Number:

775-265-8682

Fax Number:

775-265-3211

* Email:

marie.barry@washoetribe.us

Application for Federal Assistance SF-424

Version 02

9. Type of Applicant 1: Select Applicant Type:

I: Indian/Native American Tribal Government (Federally Recognized)

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

Environmental Protection Agency

11. Catalog of Federal Domestic Assistance Number:

66.461

CFDA Title:

Regional Wetland Program Development Grants

*** 12. Funding Opportunity Number:**

EPA-REG9-WP10

* Title:

FY10 Region 9 Wetland Program Development Grants

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Douglas County, Carson City, Nevada and Alpine County, California

*** 15. Descriptive Title of Applicant's Project:**

The Washoe Tribe Wetland Development and Assessment Program

Attach supporting documents as specified in agency instructions.

[Add Attachments](#)

[Delete Attachments](#)

[View Attachments](#)

Application for Federal Assistance SF-424

Version 02

16. Congressional Districts Of:

* a. Applicant 02

* b. Program/Project 02

Attach an additional list of Program/Project Congressional Districts if needed.

17. Proposed Project:

* a. Start Date: 10/01/2010

* b. End Date: 03/31/2012

18. Estimated Funding (\$):

* a. Federal	122,386.00
* b. Applicant	40,795.00
* c. State	0.00
* d. Local	0.00
* e. Other	0.00
* f. Program Income	0.00
* g. TOTAL	163,181.00

* 19. Is Application Subject to Review By State Under Executive Order 12372 Process?

- ☐ a. This application was made available to the State under the Executive Order 12372 Process for review on .
- ☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.
- ☒ c. Program is not covered by E.O. 12372.

* 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes", provide explanation.)

☐ Yes ☒ No

21. *By signing this application, I certify (1) to the statements contained in the list of certifications** and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name: Debby

Middle Name:

* Last Name: Carlson

Suffix:

* Title: Grants Manager

* Telephone Number: 775-265-8629 Fax Number: 775-265-6240

* Email: dcarlson@washoetribe.us

* Signature of Authorized Representative: Debby Carlson * Date Signed: 05/06/2010

Authorized for Local Reproduction

Standard Form 424 (Revised 10/2005)
Prescribed by OMB Circular A-102

Application for Federal Assistance SF-424

Version 02

*** Applicant Federal Debt Delinquency Explanation**

The following field should contain an explanation if the Applicant organization is delinquent on any Federal Debt. Maximum number of characters that can be entered is 4,000. Try and avoid extra spaces and carriage returns to maximize the availability of space.

BUDGET INFORMATION - Non-Construction Programs

OMB Approval No. 4040-0006
Expiration Date 07/30/2010

SECTION A - BUDGET SUMMARY

Grant Program Function or Activity (a)	Catalog of Federal Domestic Assistance Number (b)	Estimated Unobligated Funds		New or Revised Budget		
		Federal (c)	Non-Federal (d)	Federal (e)	Non-Federal (f)	Total (g)
1. Washoe Tribe Wetland Monitoring and Assessment	66.461	\$	\$	122,386.00	40,795.00	163,181.00
2.						
3.						
4.						
5. Totals		\$	\$	122,386.00	40,795.00	163,181.00

Standard Form 424A (Rev. 7- 97)
Prescribed by OMB (Circular A -102) Page 1

SECTION B - BUDGET CATEGORIES

6. Object Class Categories	GRANT PROGRAM, FUNCTION OR ACTIVITY				Total (5)
	(1)	(2)	(3)	(4)	
	Washoe Tribe Wetland Monitoring and Assessment				
a. Personnel	\$ 65,288.00	\$	\$	\$	\$ 65,288.00
b. Fringe Benefits	27,521.00				27,521.00
c. Travel	3,500.00				3,500.00
d. Equipment	0.00				
e. Supplies	2,135.00				2,135.00
f. Contractual	5,000.00				5,000.00
g. Construction	0.00				
h. Other	6,600.00				6,600.00
i. Total Direct Charges (sum of 6a-6h)	110,044.00				\$ 110,044.00
j. Indirect Charges	12,342.00				\$ 12,342.00
k. TOTALS (sum of 6i and 6j)	\$ 122,386.00	\$	\$	\$	\$ 122,386.00
7. Program Income	\$	\$	\$	\$	\$

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Prescribed by OMB (Circular A -102) Page 1A

SECTION C - NON-FEDERAL RESOURCES				
(a) Grant Program	(b) Applicant	(c) State	(d) Other Sources	(e) TOTALS
8. Washoe Tribe Wetland Monitoring and Assessment	\$ 40,795.00	\$	\$	\$ 40,795.00
9.				
10.				
11.				
12. TOTAL (sum of lines 8-11)	\$ 40,795.00	\$	\$	\$ 40,795.00

SECTION D - FORECASTED CASH NEEDS					
	Total for 1st Year	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
13. Federal	\$ 81,592.00	\$ 20,398.00	\$ 20,398.00	\$ 20,398.00	\$ 20,398.00
14. Non-Federal	\$ 27,196.00	6,799.00	6,799.00	6,799.00	6,799.00
15. TOTAL (sum of lines 13 and 14)	\$ 108,788.00	\$ 27,197.00	\$ 27,197.00	\$ 27,197.00	\$ 27,197.00

SECTION E - BUDGET ESTIMATES OF FEDERAL FUNDS NEEDED FOR BALANCE OF THE PROJECT				
(a) Grant Program	FUTURE FUNDING PERIODS (YEARS)			
	(b) First	(c) Second	(d) Third	(e) Fourth
16.	\$	\$	\$	\$
17.				
18.				
19.				
20. TOTAL (sum of lines 16 - 19)	\$	\$	\$	\$

SECTION F - OTHER BUDGET INFORMATION	
21. Direct Charges: \$110,044 federal funds requested	22. Indirect Charges: \$12,343 federal funds requested
23. Remarks:	

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Prescribed by OMB (Circular A -102) Page 2

Project Title: The Washoe Tribe Wetland Development and Assessment Program

Identification of Core Element: Monitoring and Assessment

Actions applied to a core element that are addressed in this proposal: Development of a monitoring and assessment strategy consistent with *Elements of a State Water Monitoring and Assessment Program for Wetlands* (EPA, 2006) that will be used to manage Tribal wetlands, develop modified or new techniques, and develop water quality standards and monitor wetland resources.

National and/or Regional Priority Area(s): 1) National Priority C, Wetland Monitoring and Assessment; 2) National Priority B, Regulation (Enhancing Wetland Protection); 3) Regional Priority Evaluation and Planning of Mitigation in a Watershed Context

Name of Applicant: Washoe Tribe of Nevada and California

Key personnel: Marie Barry, Environmental Program Director,

marie.barry@washoetribe.us, 775-265-8682

Geographic Location:

USGS Hydrologic Unit Code Levels: 16050201, 16050202, and 16050302.

Carson River Watershed, Truckee River Watershed, and Lake Tahoe Watershed.

Total project cost: \$184,773

Federal Dollars Requested: \$138,579

Abstract

The proposed project will develop a baseline Tribal wetland assessment and monitoring database. WEPD will prioritize impaired wetland areas and monitor water quality and wetland health of several of the most substantial wetlands across the data set and evaluate where possible the effects of land use practices, BMP's and climate change on wetland health. The proposed project will utilize the data and findings from the wetland assessment and monitoring to develop a draft Tribal Monitoring and Assessment Strategy.

Project Description:

National Priority Area: Wetland Program Development and Project Need

The Washoe Tribe of Nevada and California is seeking EPA funding to develop a comprehensive landscape profile and Level I assessment of riparian forests, shrublands, and wetlands throughout Tribal lands. The proposed project will assist the Tribe in development of a Tribal comprehensive wetland program which will protect, restore, and manage wetland resources. All activities presented involve program building and are outside the scope of existing regulatory requirements.

The proposed project includes the following tasks: 1). track monitoring data in a system that is accessible, updated on a timely basis and integrated with other water quality data and 2). analyze monitoring data to evaluate wetlands extent and condition/function and to inform decision-making. These steps are necessary for development of a comprehensive wetland strategy and for making informed wetland management decisions.

The project will result in refinement of assessment tools and protocols and an overall broader understanding of tribal wetland resources. The project will assist in future decision making regarding wetland conservation and restoration.

Environmental Outputs, Outcomes, and Results:

Outputs:

- Report detailing results of the wetland surveys
- Accessible database for storing, retrieving and maintaining wetland assessment data
- Workshops on wetland assessments, and training materials
- Draft Tribal-wide Monitoring and Assessment Strategy

Outcomes:

- Increased understanding of wetland conditions
- Improved wetland protection efforts
- Increased understanding of how to ensure "no net loss" of wetlands

Link to EPA's Strategic Plan: The proposed project addresses EPA Strategic Plan Goal 4,

Sub-objective 4.3. Wetland assessments, carried out pursuant to a long-term wetland monitoring and assessment strategy, can provide information on the degree to which a specific wetland meets (or departs from) the full health and integrity typical of that wetland ecological system. Assessments also allow wetland program managers to evaluate the status of wetlands in a given watershed or basin, and can inform decisions about wetland mitigation and creation while providing a sound basis for evaluating activities that may result in wetland degradation or loss. Basin-wide wetland surveys also provide vital information to Tribal and state water quality managers working on watershed plans.

Tracking Outputs and Outcomes: The completed database can be used to track data and project results. The database will establish the baseline for measurements and testing of wetlands. Workshop feedback will be used to monitor success.

Description of Project:

The proposed project will develop a comprehensive landscape profile and Level I assessment of riparian forests, shrub lands, and wetlands on Tribal lands. The project will apply GIS-based landscape profiling and Level I assessment tools to characterize riparian and wetland condition in each wetland. It is important to classify and inventory these wetlands into one database. This project will include research of the current and former techniques and protocols for determining wetland condition and extent. The Washoe Tribe Environmental Protection Department (WEPD) has been actively mapping, assessing and classifying tribal wetlands since 2002. Approximately 70 wetlands have been identified to this point. There is a need for complete monitoring and assessment of these sites and compilation of that information into a database in order to establish management guidelines and protocols. The proposed project will monitor and assess each wetland and enter information into a database. The intent of the project is to provide Tribal wetland condition characterization, so

that Tribal decision makers will have geographically-specific data to use in watershed plans, conservation efforts, TAS/WQS development and TMDL development.

need Tribal wetlands are at risk of degradation. The broad, flat valleys created by large rivers have been a magnet for the development of agricultural, residential, and transportation corridors. Although the Clean Water Act protects the wetland component of these ecosystems from direct dredge and fill activities, it offers no protection to the surrounding riparian woodlands, shrub lands, and mesic meadows where soils, vegetation, or hydrology do not meet the jurisdictional thresholds of "waters of the United States." Consequently, many of the floodplains that once provided water to and supported a complex matrix of riparian forests, seasonally flooded willow thickets, wet meadows, beaver-created ponds, and oxbows are now largely cleared, filled with homes and ranches and crisscrossed by paved and dirt roads. This has resulted in many Tribal wetlands becoming ecologically isolated from the dynamics that created them.

Guidance for the stages of this project are well identified by Sutula et al (2006) as the six stages in the development of a rapid assessment method 1) identify applications, endpoints and geographic scope; 2) build a scientific foundation through literature reviews and expert feedback; 3) assemble the method as a suite of metrics that can describe the full condition range; 4) verify the method's ability to distinguish between a full range of conditions; 5) calibrate and validate it against quantitative data drawn from more intensive measures of condition; and 6) implement the method by training and outreach. Creation of a comprehensive wetland assessment database is a first step in this process.

Project Tasks:

The proposed project will conduct monitoring and assessment surveys of tribal wetlands in order to develop a draft Tribal Monitoring and Assessment Strategy. The following objectives will assist in completion of the proposed project. The information and strategy developed will be used to develop a comprehensive wetland program.

Objective 1: Monitor and assess Tribal wetlands

A definition for wetlands will be developed and utilized for monitoring and assessment activities. The definition will establish methodology for classification and delineation of monitoring and sampling techniques. Development of new or simplified methodology will be utilized to classify the different types of tribal wetlands. Techniques to be used include radiometers, piezometers, CIR photography, nutrient chemical data, ion chromatograph, and nitrogen and oxygen isotope analysis. The PFC procedure and rating will be utilized in the field.

Monitoring and assessment of wetlands will be completed through the following tasks: developing a working definition of wetlands, completing a Level 1 wetland landscape profile for the entire assessment area, conducting Level I assessments for a stratified random sample of tribal wetlands, performing Level II assessments for several wetlands, and completing Level III assessments in three randomly selected wetlands.

Wetland landscape profiling will involve a characterization of the number and acreage of each type of wetland across the assessment area. Data will be mapped by tribal GIS staff. Level I-II-III assessments will use a stratified random sample design. Each wetland will be stratified by Level III ecological region, with the number of assessment points for each ecological region being proportionate to the percentage of the basin occupied by that ecological niche. Level I assessments will provide a characterization of wetland condition for each assessed wetland based on remote sensing information. Level II assessments will incorporate observations, measurements and scoring that follow the metrics and methods contained in the USA-RAM currently being developed for the 2011 survey and supplemented by additional metrics. Level III assessments will be based on intensive vegetation measurements taken at the sites. Plants will be used as Level III response taxa because vegetation is characteristically found in all wetland types, including those that are only

seasonally or ephemeral flooded. Assessments will evaluate the extent of culturally significant vegetation and animals.

Field assessments will be conducted utilizing core indicators and metrics. Detailed photographs, site descriptions, geographic coordinates, and site locations will be collected at each site.

Objective 2: Database Management

A comprehensive wetland database will be created and utilized for the project. The database will determine the extent and distribution of wetlands throughout tribal lands. All Level II and III site information and data collected will be entered into the database. Entry of data into STORET will be conducted as approval allows. All data will be analyzed and scored to calculate individual Level I, II and III rankings for each wetland, based on a scale of A to D. Individual and overall scores will be included as attributes in the database as well as photos and GPS data. Scores will be verified, calibrated and validated using the California Rapid Assessment Methodology (CRAM), the Corp of Engineers Field Guide for Wetland Delineation, and USFS Riparian Scorecard.

The Tribe will collaborate with local, state, federal entities on the results of the monitoring and assessments. WEPD will collaborate with other organizations involved in wetland protection and restoration.

WEPD will identify other sources of potential data and monitoring information. Data will be evaluated for implementation in watershed planning efforts. WEPD will review literature and descriptions for herbaceous wetland ecosystems throughout Nevada and California.

WEPD will utilize Natureserve/ GAP classifications and descriptions.

WEPD will identify core indicators, metrics and thresholds appropriate to each wetland ecosystem for inventories and classification. The proposed indicators, metrics for using them, and threshold levels for ranking systems will be considered for use in the field. Supplemental

indicators (macroinvertebrate taxa richness) will be evaluated for use in specific wetland ecosystems identified as appropriate.

NWI maps, Digital elevation models, Color infrared photos, Level I landscape profiles and local expert information will be collected.

WEPD will develop a GIS wetland layer from the collected data and establish reference sites.

Objective 3: Develop draft Tribal Monitoring and Assessment Strategy

Data and findings from the wetlands monitoring and assessments will be summarized and incorporated into a draft monitoring and assessment strategy for tribal wetlands. The monitoring data will be analyzed to evaluate wetlands extent, condition, and function. The strategy will assist with future wetland protection and restoration efforts. The strategy will be consistent with the EPA Elements of a State Monitoring and Assessment Program for Wetlands. The Tribe will use the strategy to manage wetlands and incorporate information into water quality standards development.

The strategy will summarize which methodology is best suited for tribal wetlands. The strategy will evaluate the metrics used.

Objective 4: Education and Outreach

WEPD will design and deliver workshops and presentations regarding wetland monitoring and assessments. Presentations will emphasize strategies for wetland conservation, restoration activities, and watershed planning utilizing data from monitoring and assessments. Training materials that classify and inventory wetlands will be either developed or purchased. Brochures will be developed and information will be available on the tribal website. Planning and participation in public events will also provide education and outreach opportunities.

Partnership Information

Partnerships will include Washoe Tribal entities, Pyramid Lake Paiute Tribe, Walker River Paiute Tribe, USDA Natural Resources Conservation Service, Western Nevada Resource

Conservation Council (WNRC&D), the USDA Forest Service (USFS), US Fish and Wildlife Service (USFWS), Bureau of Land Management (BLM), Bureau of Indian Affairs (BIA), The National Wetlands Inventory (NWI), The Nature Conservancy, Nevada Department of Environmental Protection (NDEP), Douglas County, Carson City, The Nevada Natural Heritage Program, Carson Valley Conservation District, Upper Carson River Management Group, and staff/professors at University of Nevada-Reno.

Information will be also be obtained from United States Geological Society (USGS), Tahoe Regional Planning Authority (TRPA), Lahontan Regional Water Quality Control Board (LRWQCB), University of California at Davis – Tahoe Research Group (UCD-TRG), Tahoe Center for Environmental Sciences, University of Nevada Cooperative Extension, Nevada Department of Transportation (NDOT), California Department of Transportation (Cal-Trans) and the Remote Sensing Center at UNR.

The Washoe Tribe is a federally recognized Indian Tribe and is in the process of applying for Treatment as a State status with US EPA for water quality standards and certification programs under Sections 303 and 401.

Milestone Schedule

The proposed project is an 18 month project, with an anticipated start date of October 1, 2010.

Timetable

Monitor and Assess Tribal Wetlands	Months 1-10
Data Management	Months 10-14
Development Draft Strategy	Months 14-18
Education and Outreach	Ongoing

Detailed Budget Narrative

Personnel:

The Washoe Tribe maintains an Indian Hiring Preference Policy that gives priority to Tribal members for all Tribal positions.

- The Environmental Program Director (PD) will devote time to overall supervision of this project to include supervision, approval of grant expenditures, and accomplishing specific activities. The Director will earn \$44.25 per hour for a total of 200 hours for the 18 month period. The PD will cost \$8,850 for the budget period.
- The Environmental Program Coordinator (PC) will devote time to accomplish specific activities of the project. The Coordinator will earn \$33.25 per hour for a total of 100 hours for the 18 month period. The PC will cost \$3,325 for the budget period.
- The Environmental Specialist II (ES II) will devote time to complete specific activities of the project. The ES II will earn \$23.38 per hour for a total of 2080 hours for the 18 month period. The ES II will cost \$48,630 for the budget period.
- The Clerical Assistant will devote time to assisting with completion of the deliverables for this grant. This position will earn \$13.20 per hour for a total of 100 hours for the 18 month period. The Environmental Secretary will cost \$1,320 for the budget period.
- The Administrative Assistant will devote time to assisting with completion of the deliverables for this grant. This position will earn \$17.57 per hour for a total of 180 hours for the 18 month period. The Environmental Secretary will cost \$3,163 for the budget period.
- The Environmental Specialist II (ES II) will devote time to complete specific activities of the project. The ES II will earn \$23.38 per hour for a total of 770 hours for the 18 month period. The ES II will cost \$18,003 for the budget period. This cost will be in kind match from 638 funds to assist with completion of project tasks.

Fringe Benefits:

Payroll taxes include social security tax (FICA), state unemployment insurance (SUTA), and worker's compensation insurance (SIIS). Calculation of the above benefits is derived by multiplying the total personnel cost by a predetermined percentage. These percentages are as follows: FICA at 0.0765, SUTA at 0.018, SIIS at 0.0221. Health insurance includes medical, dental, and vision coverage for employees. This is calculated at \$578.00 per month for one full time employee over the 18 month period. Employee paid dependent health insurance is also available. Vacation liability is estimated at 80 hours per year. The Washoe Tribe has a voluntary retirement plan. The retirement plan and the vacation plan are both determined by multiplying 6% by the sum of personnel cost, FICA, SUTA, SIIS and Health Benefits. Fringe will be used for in kind match from 638 funds for the ES II position identified as in kind match above.

Travel:

\$2,000 for conferences and trainings. This will cover airfare, hotel and per diem costs for travel to these conferences.

\$1,500 for local travel to include mileage for monitoring and assessments.

Equipment:

\$15,019 for equipment utilized by the project including GIS/GPS, plotter, vehicles, and quads will be in kind match.

Contractual:

\$5,000 for laboratory fees for monitoring and assessment of wetlands using various techniques identified in the narrative.

Other:

\$3,000 for communications operations and repairs, telephone, and utilities. This will also include assisting with department telephone, postage, cell phone, internet, mail, electronic

webpage, maintenance, and security system costs. \$1,800 for cell phone charges over the 18 month project period. \$1,800 for vehicle maintenance, insurance and registration.

\$1,230 will be in kind match from volunteer events relating to wetland monitoring and assessments.

Indirect Rate:

The indirect cost is determined by multiplying 11.75% by the sum of the direct costs minus contractual and equipment expenses.

Restoration Demonstration Project Information:

Not Applicable

Programmatic Capability/ Technical Experience/ Qualifications:

WEPD has had several federal and non-federal agreements within the past three years. Each of the agreements has set guidelines in reporting of tasks and activities accomplished during the reporting period. The work plan is used as a program logic model and management tool that is used throughout a program's life. Using evaluation and the logic model results in effective programming and offers greater learning opportunities, better documentation of outcomes, and shared knowledge of what works and why.

Five agreements similar in scope and relevance to the proposed project:

1. EPA SWDA Special Purpose Activities: RCRA 8001 FY07
2. EPA Direct Implementation Tribal Cooperative Agreement FY07
3. EPA Non Point Source 319h since 2000
4. EPA Clean Water Act Section 106 since 1998
5. EPA General Assistance Program since 1994

Currently, the WEPD has over 18 agreements with several agencies including: U.S Forest Service, EPA, Department of Transportation, U.S. Department of Energy, Bureau of Reclamation, USDA, Bureau of Indian Affairs, Indian Health Service, NRCS, etc. Examples of outputs and outcomes from previous agreements include the establishment of several law

and order codes, completion of a Non Point Source Assessment and Management Plan, draft Water Quality Standards, Unified Watershed Assessment, Open Dump Closure Plans, wellhead protective fencing of eight sites, several streambank stabilization projects, wildland fire vegetative and erosion control implementation projects, and implementation of the Washoe Integrated Solid Waste Management Plan. The above five agreements listed were implemented successfully by WEPD.

The WEPD also has mandatory monthly reporting requirements for the Tribal Council; this assists with keeping the Council informed of activities, issues, and project updates. The reporting has benefited WEPD in gaining Tribal Council support in natural resource protection.

WEPD maintains a report submittal database for all programs. This database is the needed resource to track the reporting requirements of the multiple funding agencies. The WEPD coordinator oversees this database and the timely completion of the required reports. All reports submitted by WEPD receive internal evaluation prior to submittal. This evaluation verifies grants are making progress toward achieving the expected results. On the occasion an assistance program is behind schedule WEPD does not hesitate to inform the project officer of the lack of progress with reasoning of why it is behind, and the revised date of completion. The Washoe Tribe has a strong commitment to the restoration of Tribal lands and the aboriginal homelands. WEPD has extensive experience with the issues facing the Tribe and their lands. WEPD staff have various skills and significant experience as a department dealing with issues that threaten tribal lands and the natural and cultural resources. The Program Director, Program Coordinator, and Environmental Specialists' have extensive experience and knowledge of the tasks needed to accomplish the proposed project. WEPD has a diverse and highly trained staff with experience and backgrounds in limnology, geomorphology, hydrology, forestry, fire ecology, natural resource management, fisheries, wildlife, wetlands, invasive species, and land management. Staff have an in-depth

understanding of solid waste issues, compliance and enforcement. WEPD personnel have experience and knowledge in project administration and implementation, education and outreach, developing plans and conducting studies. The WEPD Program Director has significant experience in administering environmental program funding and managing environmental projects and staff. Furthermore, staff are well versed in delivering trainings and workshops in a culturally sensitive manner, to environmental professionals and Tribal leaders and members.

Transfer of Results

Methods and results will be shared through workshops, trainings, presentations at state, regional and national meetings as accepted, and through planned participation with the Western Monitoring and Assessment Workgroup as well as with references to Natureserve. All results and reports will be communicated to Tribal Council and available at WEPD office. In addition, results sharing with partners will be completed through newsletters, partners' meetings, and professional meetings. Some information as approved will be summarized on the Tribal website.

Past Performance:

The Washoe Environmental Protection Department (WEPD) has had several federal and non-federal agreements within the past three years. Each of the agreements has set guidelines in reporting of tasks and activities accomplished during the reporting period. The work plan is used as a program logic model and management tool that is used throughout a program's life. Using evaluation and the logic model results in effective programming and offers greater learning opportunities, better documentation of outcomes, and shared knowledge of what works and why.

Quarterly reports are submitted in a timely manner and contain the following information:

- Comparison of actual versus expected progress achieving environmental outcomes and outputs, for each work plan task.

- Explanations for lack of progress (or anticipated lack of progress) if applicable.
- Suggestion for improving grants performance or modifying expectations (including proposed changes to target due dates) if necessary.
- Status of expenditures (cumulative) for reporting period and explanations of cost overruns/ under-runs if applicable and equipment purchases.

Five Agreements completed by WEPD staff are as follows:

6. EPA SWDA Special Purpose Activities: RCRA 8001 FY07
7. EPA Direct Implementation Tribal Cooperative Agreement FY07
8. EPA Non Point Source 319h since 2000
9. EPA Clean Water Act Section 106 since 1998
10. EPA General Assistance Program since 1994

Currently, the WEPD has over 18 agreements with several agencies including: U.S Forest Service, EPA, Department of Transportation, U.S. Department of Energy, Bureau of Reclamation, USDA, Bureau of Indian Affairs, Indian Health Service, NRCS etc. Examples of outputs and outcomes from previous agreements include the establishment of several law and order codes, completion of a Non Point Source Assessment and Management Plan, draft Water Quality Standards, Unified Watershed Assessment, Open Dump Closure Plans, wellhead protective fencing 8 sites, several streambank stabilization projects, wildland fire vegetative and erosion control implementation projects, and implementation of the Washoe Integrated Solid Waste Management Plan. The above five agreements listed were implemented successfully by WEPD.

The WEPD also has mandatory monthly reporting requirements for the Tribal Council this assists with keeping the Council informed of activities, issues, and project updates. The reporting has benefited WEPD in gaining Tribal Council support in natural resource protection. The EPA Project Officer for the Tribe's water programs has a strong relationship with WEPD and also is aware of local watershed issues. The long standing partnerships

(federal, state, local, and tribal) within the Carson River Watershed (includes the Clear Creek Watershed) has also lead to many important efforts to protect water quality and other natural resources.

Quality Assurance/Quality Control (QA/QC):

The Washoe Tribe has a written QA/QC plan for data collection and an invasive species identification, and reporting protocol. Current strategy for entry of water quality data in STORET/WQX will be followed.

Invasive Species Control:

Project staff will undertake and continue an active program of invasive weed control. This program is lead by Dr. John Warpeha. The proposed project will not facilitate the introduction or spread of invasive species. Vehicles will be cleaned and inspected prior to entering and exiting project areas. If an invasive species problem is encountered in the field, it will be immediately reported and addressed.

